

Message Text

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ORIGIN ERDA-07

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DRAFTED BY GRUDINS/PFRANK:OIP:EWA
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GFHELFRICH
WJACKSON, MHD
EUR/SOV:NBURAKOW

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P 052052Z AUG 76
FM SECSTATE WASHDC
TO AMEMBASSY MOSCOW PRIORITY

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E.O. 11652:

TAGS: US, UR, TECH, TGEN, ENRG

SUBJECT: US-USSR ENERGY AGREEMENT: MHD STATUS REPORT
08.20020804

1. REQUEST EMBASSY DELIVER FOLLOWING LETTER FROM W. JACKSON
ERDA, TO DR. G. TELEGIN, INSTITUTE FOR HIGH TEMPERATURES.
(ORIGINAL OF LETTER SENT THROUGH OPEN MAIL 7/22/76).

2. DEAR DR. TELEGIN, THE US SIDE HAS REVIEWED THE SOVIET
REVISED VERSION OF THE MATERIALS CHAPTER OF THE JOINT
STATUS REPORT AND HAS THE FOLLOWING COMMENTS AND REQUESTS:

3. THE SOVIET WRITE-UP OF SECTION 11.5.2.8 ON U-02 AND
U-25 MATERIALS IS GENERALLY SUFFICIENT EXCEPT THAT IT
LACKS DETAIL REGARDING COMPOSITIONS, PHASE ASSEMBLAGES
AND REACTIONS. TERMS SUCH AS "COMPOSITION #8", 'RAMMED
MASSES', 'TZFB', OR 'MBZHST' ARE MEANINGLESS WITHOUT
FURTHER DEFINITION OR CLARIFICATION. FOR THIS REASON
IT IS REQUESTED THAT THE SOVIET MATERIAL, INCLUDING TEXT,
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TABLES AND FIGURES, BE REVISED TO INCLUDE SPECIFIC

IDENTIFICATION OF THE FOLLOWING: (1) BULK COMPOSITIONS BY LISTING WEIGHT OR MOLE PERCENT OF EACH COMPONENT;

(2) PHASE ASSEMBLAGES BY DESIGNING FORMULA TYPE OF STRUCTURE TYPE SUCH AS ABO OR PEROVSKITE, ETC.; AND (3) REACTIONS BY STATING THE SPECIFIC EQUATION IN CHEMICAL TERMS.

4. THE US SIDE CONCURS IN THE USSR SUGGESTION TO CONDENSE THE MATERIALS CHAPTER BY ELIMINATING SECTION 11.6, 'SUPPORTING MATERIALS RESEARCH, DEVELOPMENT AND TESTING'. HOWEVER, SINCE THIS SECTION CONTAINS VALUABLE, NECESSARY INFORMATION, IT WOULD BE DESIRABLE TO INCLUDE SOME OF THIS DATA UNDER APPROPRIATE PARTS OF SECTION 11.5 'MATERIALS PERFORMANCE UNDER REAL MHD CONDITIONS'. IT IS THEREFORE REQUESTED THAT SECTION 11.5 BE REVISED AS FOLLOWS:

A. THE US SIDE WILL WRITE A SECTION ON COAL SLAG PROPERTIES TO BE INCLUDED UNDER A NEW SECTION UNDER 11.4.

B. THE USSR SIDE SHOULD ENLARGE SECTION 11.5.2.8 (U-02 AND U-25) TO INCLUDE A WRITE-UP OF THEIR TUNGSTEN ALLOY PIN ELECTRODE SYSTEM.

C. THE USSR SIDE SHOULD EXPAND SECTIONS 11.5.3 (COMBUSTORS) AND 11.5.4 (AIR PREHEATERS) TO INCLUDE THEIR MATERIALS EXPERIENCES IN THESE AREAS

D. THE USSR SIDE SHOULD WRITE A NEW SECTION ON THE USSR EXPERIENCES WITH RADIATIVE BOILERS, BOILER TUBES (STEAM SECTION), ETC. THIS, TOGETHER WITH THE US DATA CONTAINED IN SECTION 11.6 (PAGES 202-216, US REPORT), SHOULD THEN BE USED TO FORM THE NEW CHAPTER SECTION 11.5.5, (DOWNSTREAM COMPONENTS (STEAM PLANT MATERIALS)).

E. IT IS SUGGESTED THAT THE ADDITIONAL TEXT TO BE UNCLASSIFIED

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SUPPLIED BY THE USSR SIDE BE LIMITED TO 20-30 PAGES; THE US TEXT ON SLAG PROPERTIES WILL BE OF SIMILAR SIZE.

5. IT IS REQUESTED THAT THE USSR TEXT BE TRANSMITTED TO MR. GEORGE RUDINS, ERDA, DURING HIS TRIP TO MOSCOW IN AUGUST. THIS WILL ALLOW SUFFICIENT TIME FOR PREPARATION OF THE MANUSCRIPT IN FINAL FORM BY THE OCTOBER 1976

STEERING COMMITTEE AND WORKING GROUP MEETINGS IN MOSCOW.
SINCERELY, W. D. JACKSON, ACTING MHD DIRECTOR ERDA. HABIB

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